

Claims

1. A door assembly, comprising:

- (a) a door component that defines first and second guide channels;
- (b) a first end cap that is mountable with respect to a first end of said door
5 component and that defines at least two slots in a back face thereof;
- (c) a second end cap that is mountable with respect to a second end of said door
component and that defines at least two slots in a back face thereof; and
- (d) a pair of latching subassemblies that are rotatably mounted with respect to said
10 first and second guide channels, respectively, each of said pair of latching
subassemblies including an elongated latch member, a pair of latch elements
mounted with respect to said elongated latch member, and an accessible handle
portion;

wherein each of said pair of latch elements defines a slot that may be rotated between (i) a
first position wherein a mounting structure may be received by said slot and (ii) a second
15 position wherein a mounting structure may be captured by said slot and said first or second
guide channel.

2. The door assembly according to claim 1, wherein said door component further
defines at least one aperture for use in mounting said first end cap or said second end cap
to said door component.

20 3. The door assembly according to claim 1, wherein each of said first and second
guide channels defines a stop, and wherein said stop of said first guide channel interacts

with one of said pair of latching subassemblies to limit rotational motion of said latching subassembly relative to said first guide channel.

4. The door assembly according to claim 1, wherein each of said first and second end caps includes outwardly directed arcuate faces at opposite sides thereof.

5 5. The door assembly according to claim 1, wherein said at least two slots formed in the back face of each of said first end cap and said second end cap are V-shaped.

6. The door assembly according to claim 1, wherein each of said elongated latch members includes an inner channel wall that defines a channel region therewithin.

7. The door assembly according to claim 6, wherein each of said elongated latch
10 members further includes a key extending into said channel region.

8. The door assembly according to claim 7, wherein each of said latch elements includes a key slot that is adapted to cooperate with said key that extends into said channel region for alignment of said latch element relative to said elongated latch member.

9. The door assembly according to claim 6, wherein: (i) a bounded space is defined
15 between said inner channel wall and said handle portion of each of said elongated latch members, (ii) said wall component defines an arcuate face at each side thereof, and (iii) each of said arcuate faces of said wall component travels within said bounded space of a respective elongated latch member as said latching subassembly is rotated relative to said first or second guide channel.

20 10. The door assembly according to claim 1, wherein each of said pair of latch elements includes: (i) a mounting extension, (ii) an intermediate band, and (iii) a latching region that includes said slot for receiving said mounting structure.

11. The door assembly according to claim 10, wherein said mounting extension includes an arcuate shell for cooperation with at least one opening formed in said first or second guide channel of said door component.

12. The door assembly according to claim 10, wherein said intermediate band defines a deflection arm that interacts with said first or second guide channel as said latching subassembly is rotated relative to said guide channel.

13. The door assembly according to claim 10, wherein said mounting extension is configured and dimensioned to be inserted into a channel defined within said elongated latch member.

14. The door assembly according to claim 1, wherein said handle portion has a height that is substantially equal to the height of said door component.

15. A cable management system, comprising:

(a) a wire cage assembly that includes (i) an upper wire element that defines left and right downward projections, and (ii) a lower wire element that defines left and right upward projections; and

(b) a door assembly that includes (i) a door component that defines first and second guide channels; (ii) a first end cap that is mountable with respect to a first end of said door component and that defines at least two slots in a back face thereof; (iii) a second end cap that is mountable with respect to a second end of said door component and that defines at least two slots in a back face thereof; and (iv) a pair of latching subassemblies that are rotatably mounted with respect to said first and second guide channels, respectively, each of said pair of latching

subassemblies including an elongated latch member, a pair of latch elements mounted with respect to said elongated latch member, and an accessible handle portion;

wherein said latch elements define slots that may be rotated between (i) a first position

5 wherein at least one of said upward and downward projections may be received by said slot, and (ii) a second position wherein said at least one of said upward and downward projections may be captured by said slot and said first or second guide channel.

16. The cable management system according to claim 15, wherein said door assembly may be rotated from left-to-right or from right-to-left relative to said wire cage assembly,
10 and removed from said wire cage assembly, through rotation of said latching subassemblies relative to said first and second guide channels.

17. A method for mounting a door assembly relative to a mounting structure, comprising:

- 15 (a) providing a mounting structure that includes at least two pairs of mounting extensions;
- (b) providing a door assembly that includes (i) a door component that defines first and second guide channels; (ii) a first end cap that is mountable with respect to a first end of said door component and that defines at least two slots in a back face thereof; (iii) a second end cap that is mountable with respect to a second
20 end of said door component and that defines at least two slots in a back face thereof; and (iv) a pair of latching subassemblies that are rotatably mounted with respect to said first and second guide channels, respectively, each of said

pair of latching subassemblies including an elongated latch member, a pair of latch elements mounted with respect to said elongated latch member, and an accessible handle portion; wherein said latch elements define slots that may be rotated between (i) a first position wherein at least one of said upward and downward projections may be received by said slot, and (ii) a second position wherein said at least one of said upward and downward projections may be captured by said slot and said first or second guide channel; and

- (c) mounting said door assembly to said mounting structure by capturing said at least two pairs of mounting extensions within said slots defined by said latch elements.

18. The method according to claim 17, wherein said mounting structure is a wire cage assembly.

19. The method according to claim 17, further comprising selectively releasing said mounting extensions at a first or second side of said door assembly and opening so as to permit said door assembly to be swung open from said released side.

20. The method according to claim 17, further comprising releasing all of said mounting extensions and removing said door assembly from said mounting structure.